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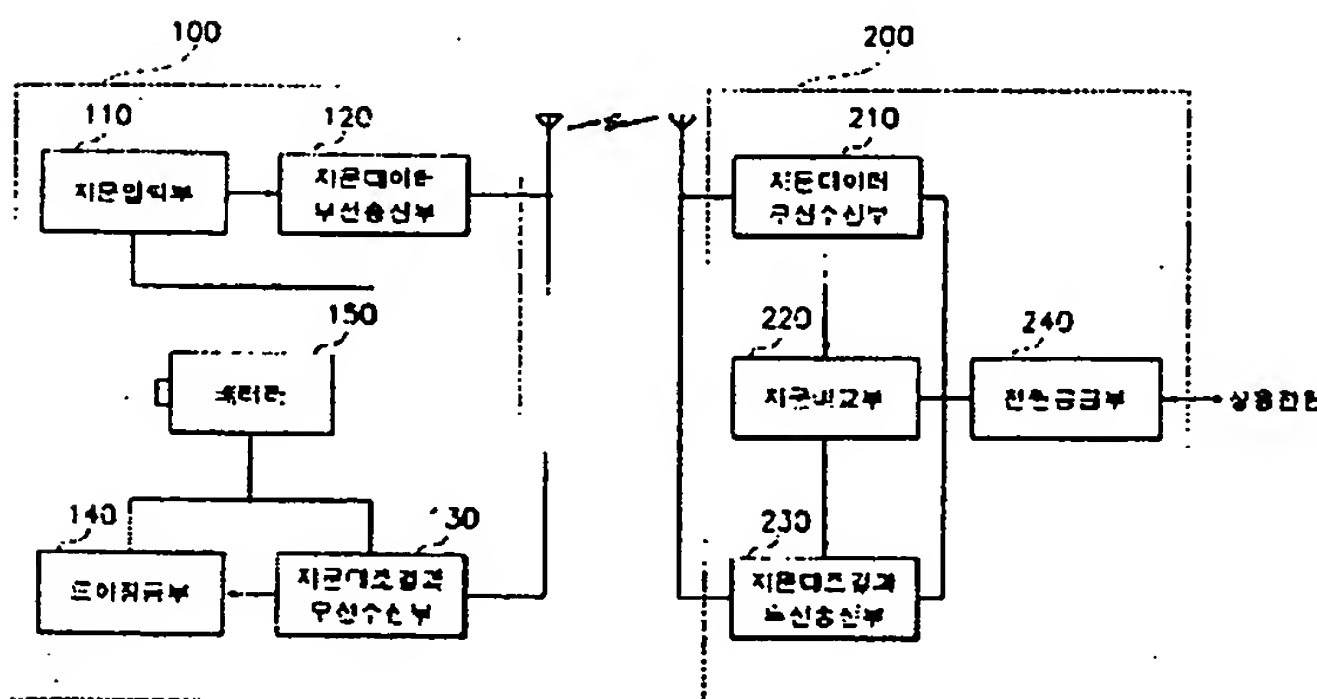SHIN, HO GYUN
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(54) Title of Invention
DEVICE FOR FINGERPRINT-TYPE DOOR LOCK HAVING FUNCTION OF TRANSFERRING FINGERPRINT DATA IN WIRELESS

Representative drawing

(57) Abstract:

PURPOSE: The device for the fingerprint-type door lock is provided to cut down the costs for the maintenance by connecting a separated fingerprint comparison part with the door part through the wireless communication.

CONSTITUTION: The device comprises a fingerprint input and door lock module(100) and a fingerprint comparison module (200). Each component of the fingerprint input and door lock module(100) receives the power supply from a battery(150). Each component of the fingerprint comparison module(200) receives the power through a power supplier(240). When a user puts the fingerprint part of a thumb on a fingerprint input

unit(110), the fingerprint is scanned and the scanned fingerprint image is impressed to a wireless transmitter for the fingerprint data(120). The fingerprint data is converted into a wireless frequency signal and transferred to a wireless receiver for the fingerprint data(210). The fingerprint data is inputted into a fingerprint comparator (220), which compares the fingerprint data with the registered fingerprint data. When both fingerprint data are the same, a door lock release signal is output. The door lock release signal is transferred to the fingerprint input and door lock module(100). The wireless frequency signal is converted into the door lock release signal and impressed on a door lock unit(140). The door lock unit is operated by the door lock release signal and finally the lock state of the door is released. After a predetermined time, the door lock unit(140) is operated and the door returns to the lock state again.

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